

Fig. 1

PRIOR ART

Header A
Data A
Header B
Data 1B
Data 2B
Data 3B
Data 4B
Header C
Data 1C
⋮

Fig. 2a  
PRIOR ART

Bitstream header Config. Logic Reg. address	Config. Logic Register data contents
0000	Cyclic Redundancy Check (CRC)
0001	Frame Address
0010	Frame Data Input
0011	Frame Data Output
0100	Command
0110	Control
0111	Status
1000	Daisy Chain Output
1001	Configuration Option
1010	Reserved
1011	Frame Length
1100	Reserved
1101	Reserved
1110	Reserved
1111	Reserved

Fig. 2d  
PRIOR ART

32-bit Command Header Format 1

Format Type	Op code	Config. Logic Register address	Word count
001	00 01 10		

Fig. 2b PRIOR ART

11 bits, counts 2048 words

32-bit Command Header Format 1

Format Type	Op code	Config. Logic Register Address	Word Count
001	00 01 10		00000000000

32-bit Command Header Format 2

Format Type	Op code	Word Count
010	00 01 10	

27 bits, counts 2.68 million words or 10 megabytes

Fig. 2c PRIOR ART

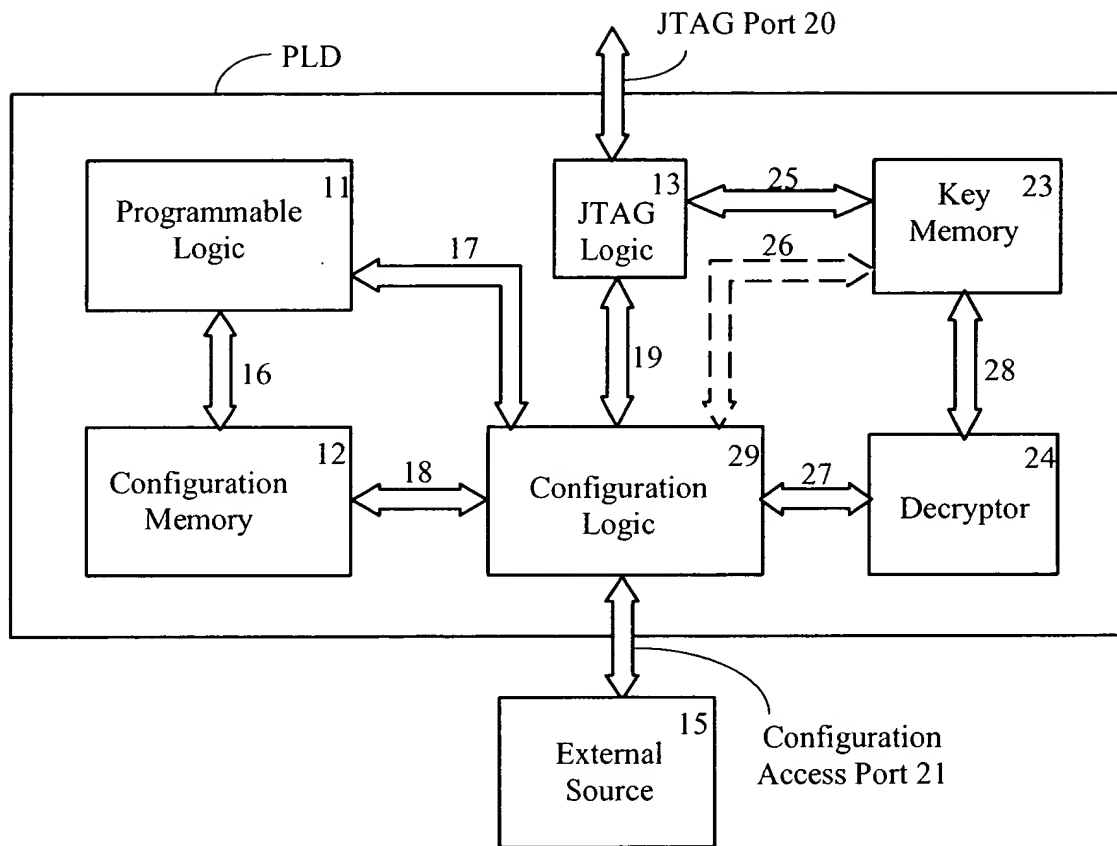


Fig. 3

Header A
Data A
Header B
Data B
Header C
Data C
Header D
Data 1D
Data 2D
Data 3D
⋮

Fig. 4a

Bitstream header Config. Logic Reg. address	Config. Logic Register data contents
0000	Cyclic Redundancy Check (CRC)
0001	Frame Address
0010	Frame Data Input
0011	Frame Data Output
0100	Command
0110	Control
0111	Status
1000	Daisy Chain Output
1001	Configuration Option
1010	Reserved
1011	Frame Length
1100	Cipher block chaining(CBC) starter
1101	Initial key address
1110	Reserved
1111	Reserved

Fig. 4d

32-bit Command Header Format 1

Format Type	Op code	Config. Logic Register address	Word count
0 0 1	0 0 0 1 1 0 1 1		

Fig. 4b

11 bits, counts 2048 words

32-bit Command Header Format 1

Format Type	Op code	Config. Logic Register Address	Word Count
0 0 1	0 0 0 1 1 0 1 1		0 0 0 0 0 0 0 0 0 0 0 0

32-bit Command Header Format 2

Format Type	Op code	Word Count
0 1 0	0 0 0 1 1 0 1 1	

Fig. 4c

27 bits, counts 2.68 million words or 10 megabytes

Fig. 5a

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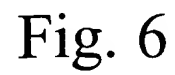
 ENCRYPTED VERSION
 

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    Dummy word 11111111111111111111111111111111
    Sync word 101010100110010101010101010110
Type 1 write 1 words to CMD 001100000000000100000000000001
    RCRC command 00000000000000000000000000000111
Type 1 write 1 words to FLR 00110000000000010110000000000001
    data word 0 0000000000000000000000000000011001
Type 1 write 1 words to COR 00110000000000010010000000000001
    data word 0 00000000000001000011111111000001
Type 1 write 1 words to ID 00110000000000011100000000000001
    data word 0 00000001000000001000000010010011
Type 1 write 1 words to MASK 00110000000000001100000000000001
    data word 0 00000000000000000000000000000000
Type 1 write 1 words to CMD 00110000000000001000000000000001
    SWITCH command 000000000000000000000000000001001
Type 1 write 1 words to FAR 00110000000000000010000000000001
    data word 0 00000000000000000000000000000000
Type 1 write 1 words to CMD 00110000000000001000000000000001
    WCFG command 00000000000000000000000000000001
Type 1 write 1 word to KEY ADDR 00110000000000011000000000000001
    data word 0 00000000000000000000000000000000
Type 1 write 2 words to CBC 00110000000000011010000000000010
    data word 0 10010000101010111100110111101111
    data word 1 00010010001101000101011001111000
Type 1 decrypt 0 words to FDRI 00111000000000000100000000000000
Type 2 dec 10530 words to FDRI 01011000000000000010100100100010
    data word 0 00010101110110110011001011001000
    data word 1 111000001110001101111111101100111
    data word 2 10101010011111011110001100110011
    data word 3 01100001101011100001011010110100
    .
    .
    data word 10526 01011001101111101100010101001010
    data word 10527 00101001010111111101011110110000
    data word 10528 11000000001010100110011000101010
    data word 10529 01111111110010000001100011100010
    Auto CRC word 000000000000000001011111011001010
Type 1 write 1 words to CMD 00110000000000001000000000000001
    LFRM command 000000000000000000000000000000011
    Type 1 NO OP 00100000000000000000000000000000
    .
    .
    Type 1 NO OP 00100000000000000000000000000000
Type 1 write 1 words to COR 00110000000000001001000000000001
    data word 0 00000000000001000011111111000001
Type 1 write 1 words to CMD 00110000000000001000000000000001
    START command 0000000000000000000000000000000101
Type 1 write 1 words to CTL 00110000000000001010000000000001
    data word 0 00000000000000000000000000000000
Type 1 write 1 words to CMD 00110000000000001000000000000001
    GRESTORE command 000000000000000000000000000001010
Type 1 write 1 words to CRC 00110000000000000000000000000001
    data word 0 00000000000000000000000101011100111
Type 1 write 1 words to CMD 00110000000000001000000000000001
    DESYNCH command 000000000000000000000000000001101
    Type 1 NO OP 00100000000000000000000000000000
  
```

Fig. 5b



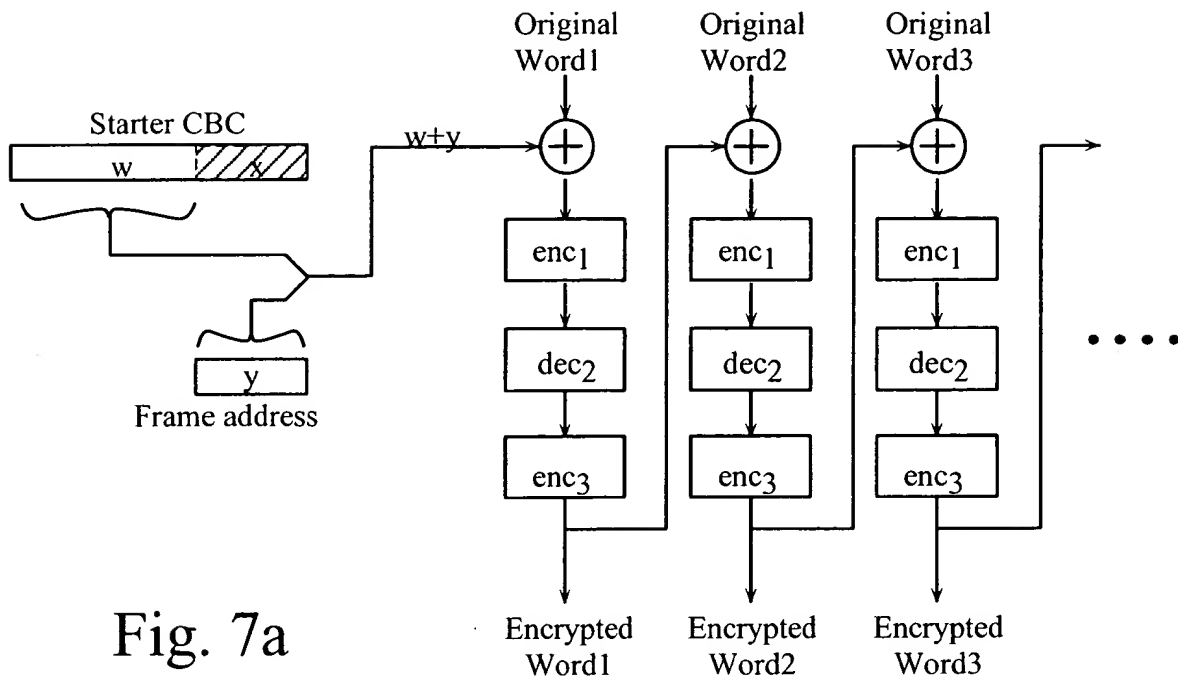


Fig. 7a

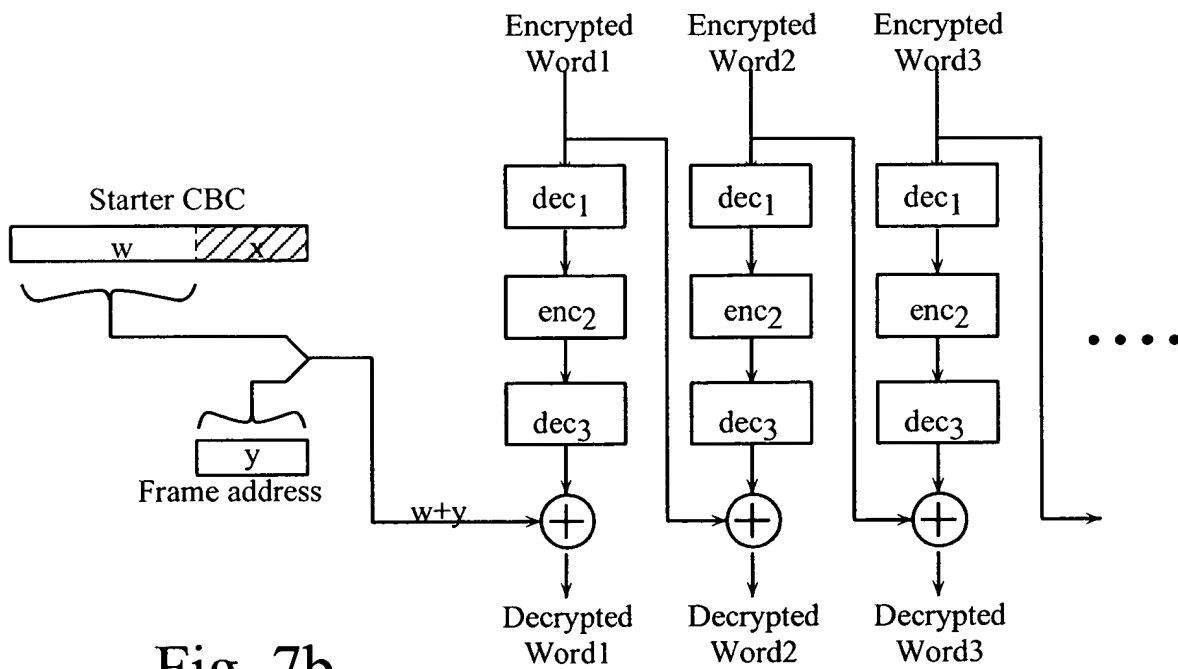


Fig. 7b



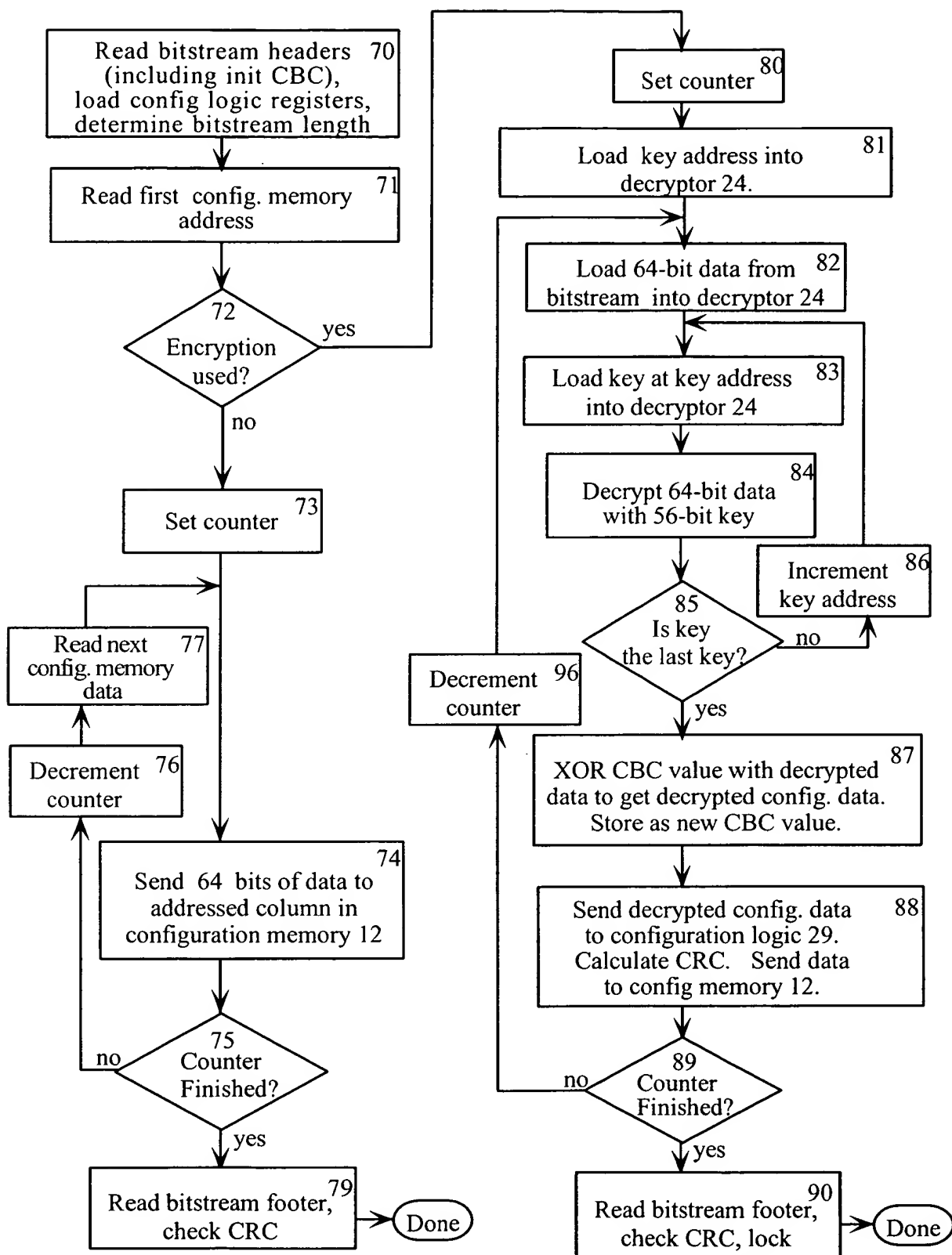


Fig. 8

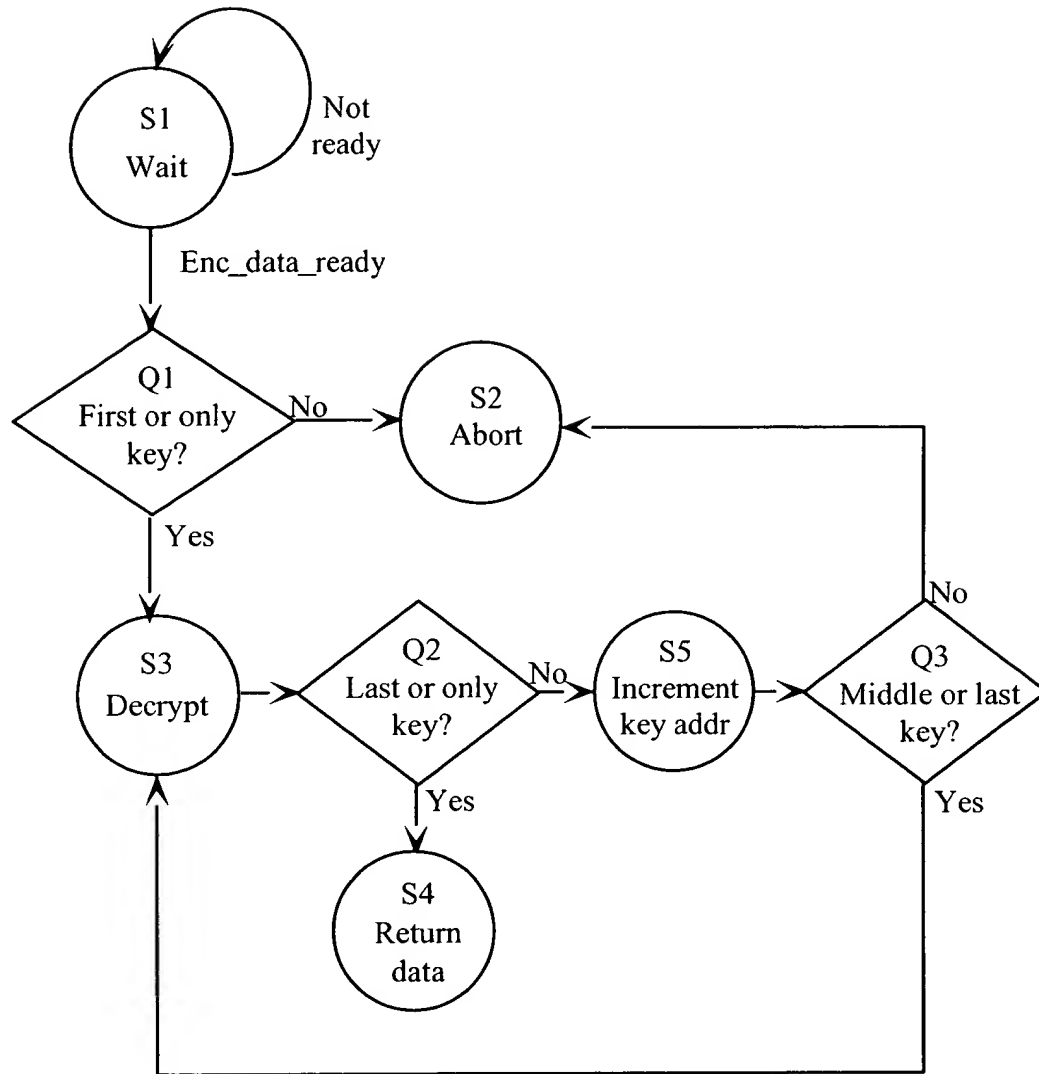


Fig. 9

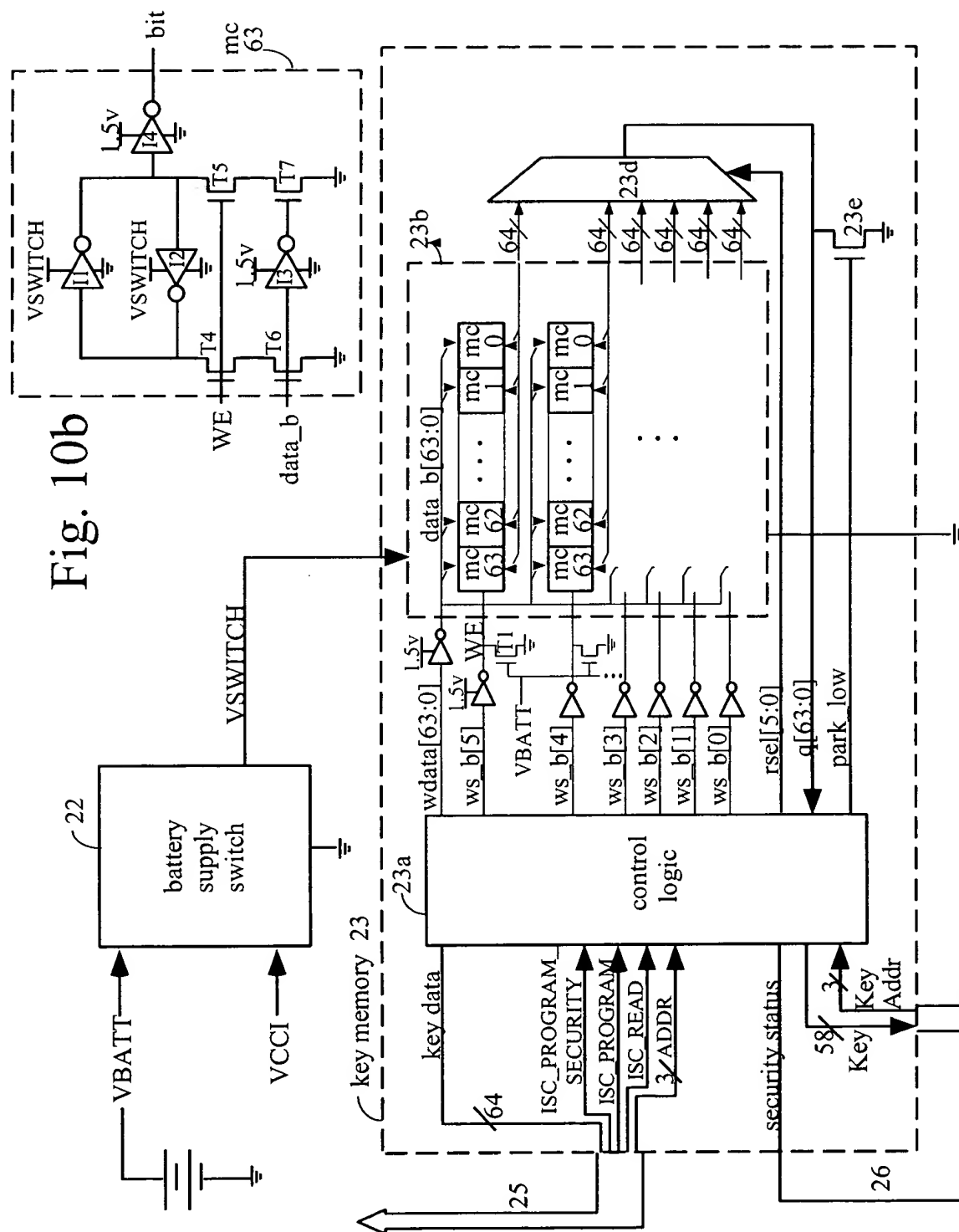


Fig. 10a

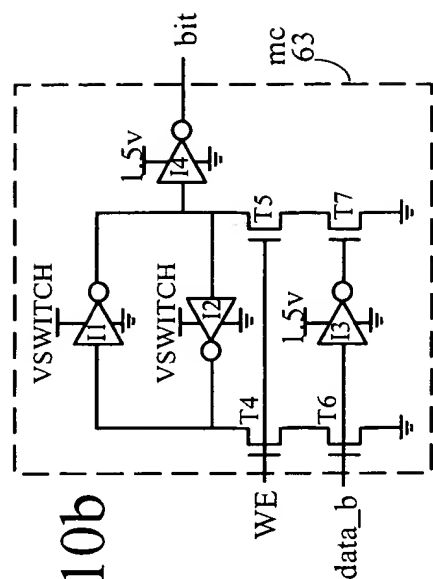


Fig. 10b

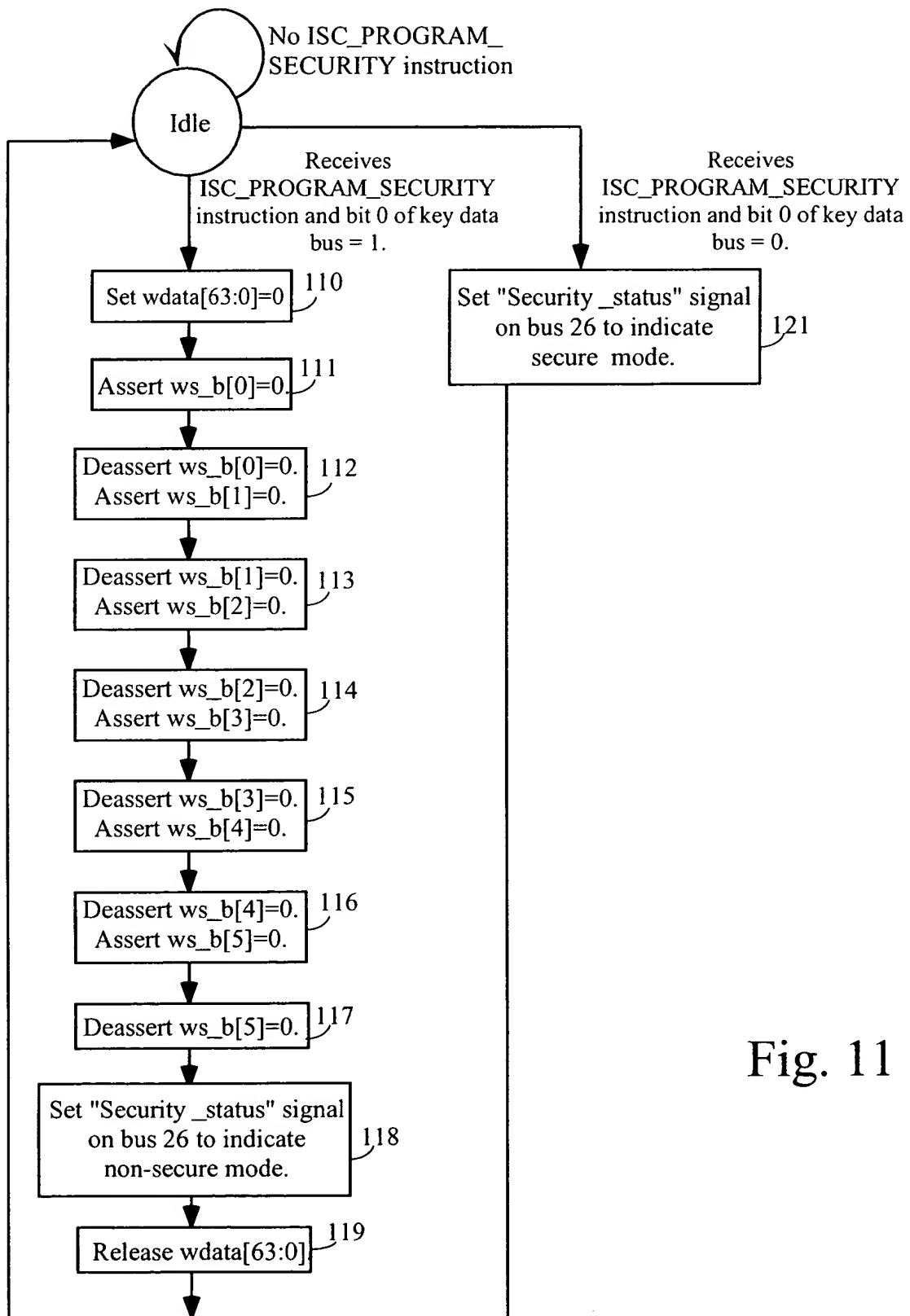
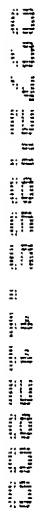


Fig. 11

[illegible]

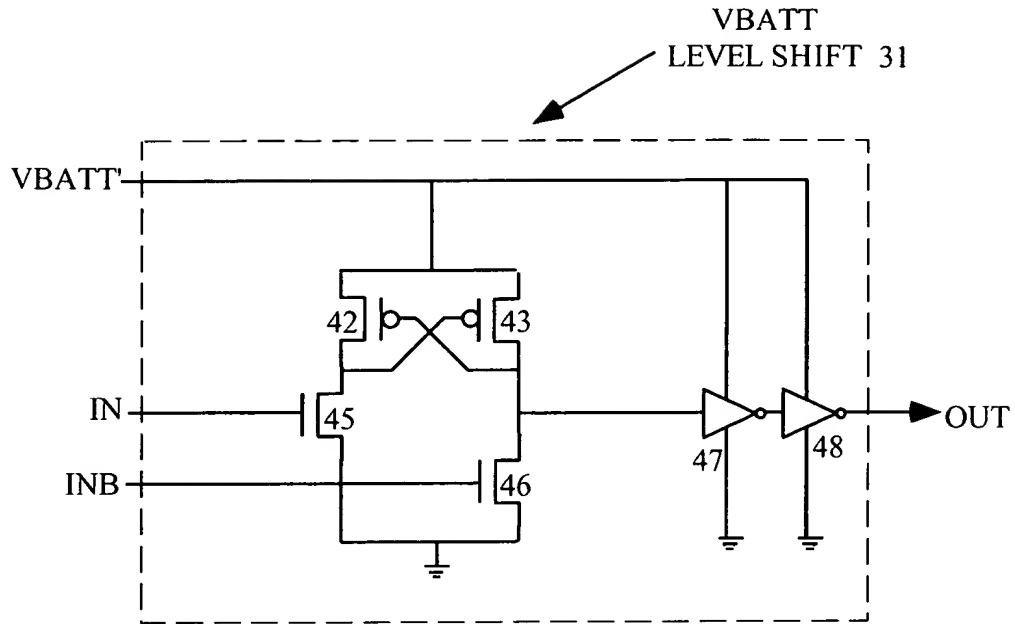


Fig. 13

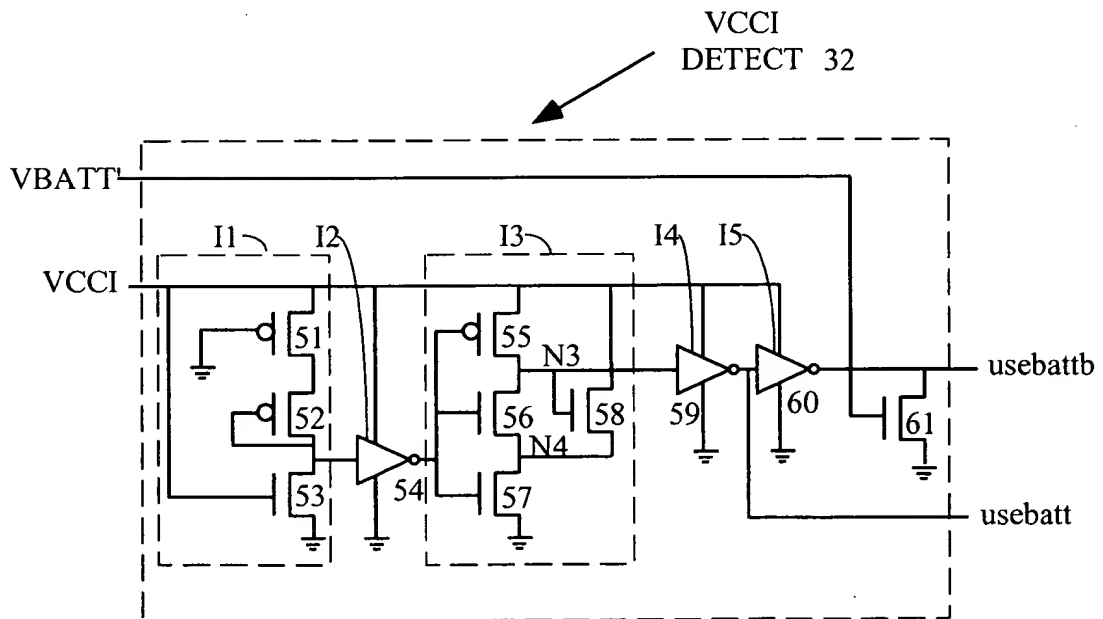


Fig. 14

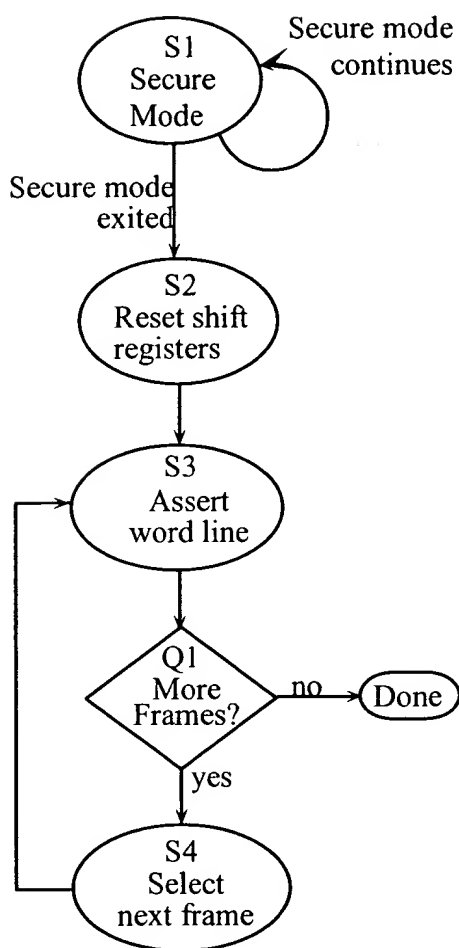


Fig. 15

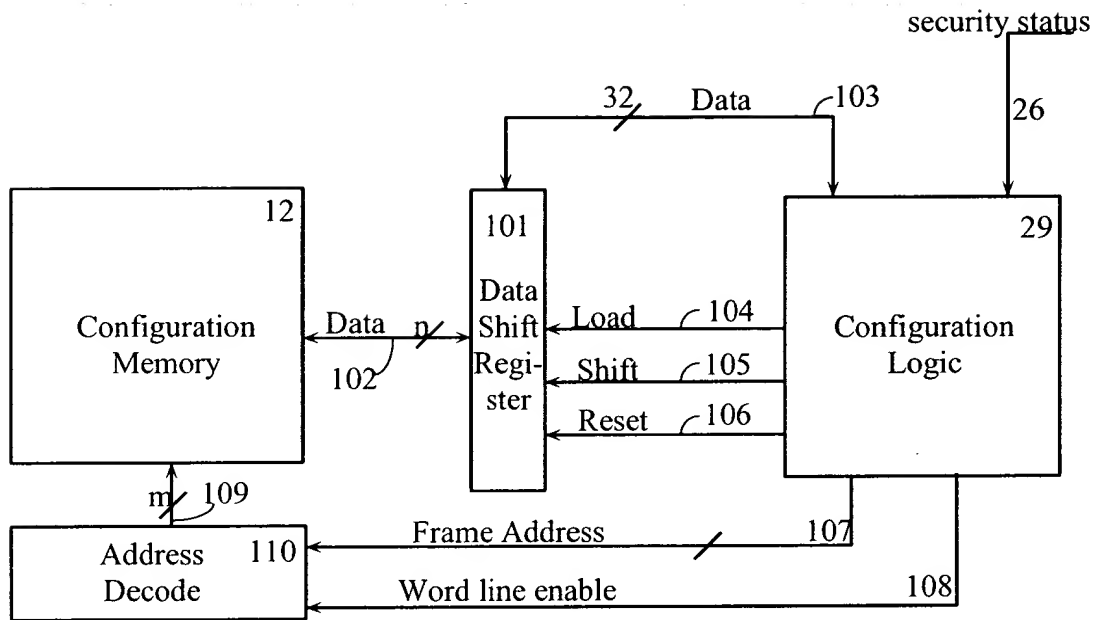


Fig. 16